## AMENDMENTS TO THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

## LISTING OF CLAIMS

(Currently Amended) A method of making a channel estimate, comprising:
 determining at least first and second confidence levels that a transmitted
 data symbol has respective first and second values based on a received data
 symbol corresponding to the transmitted data symbol; and

generating a channel estimate <u>over a time window of predetermined</u> width based on the first and second confidence levels.

- 2. (Original) The method of claim 1, wherein the first confidence level represents a first probability that the transmitted data symbol is the first value and the second confidence level represents a second probability that the transmitted data symbol is the second value.
- 3. (Original) The method of claim 1, wherein the generating step generates the channel estimate based on the first and second confidence levels and the received data symbol.
- 4. (Currently Amended) The method of claim 1, further comprising:

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generating an overall channel estimate by obtaining a weighted average of a plurality of channel estimates generated by said generating a channel estimate step over [[a]] the time window of predetermined width.

5. (Currently Amended) A method of making a channel estimate, comprising:

generating a confidence factor according to a confidence function and a
received data symbol, the confidence factor representing a confidence level that
a transmitted data symbol corresponding to the received data symbol has a
particular symbol value; and

generating a channel estimate <u>over a time window of predetermined</u> width based on the confidence factor and the received data symbol.

- 6. (Original) The method of claim 5, wherein the confidence function includes generating a log-likelihood ratio on the received data symbol.
- 7. (Original) The method of claim 5, wherein the generating a confidence factor step generates the confidence factor according to the confidence function, the received data symbol and a variance of the channel estimate.
- 8. (Currently Amended) The method of claim 5, further comprising:

  generating an overall channel estimate by obtaining a weighted average
  of a plurality of channel estimates generated by said generating a channel
  estimate step over [[a]] the time window of predetermined width.

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9. (Currently Amended) A method of making a channel estimate, comprising: determining a strength indicator based on a received data symbol corresponding to a transmitted data symbol, a value of the strength indicator indicating a likelihood that the transmitted data symbol is a particular value; and

generating a channel estimate <u>over a time window of predetermined</u> width based on the confidence factor and the received data symbol.

- 10. (Original) The method of claim 9, wherein in a bi-phase shift keying communication system, the strength indicator approaches a value of 1 the greater the likelihood that the transmitted data symbol was 1 and approaches a value of -1 the greater the likelihood that the transmitted data symbol was -1.
- 11. (Original) The method of claim 9, wherein the determining step determines, for each possible symbol value, a probability that the transmitted data symbol is the possible symbol value based on the received data symbol, and determines the strength indicator from the determined probabilities.
- 12. (Original) The method of claim 11, wherein the determining step performs the probability determinations and the strength indicator determination according to a predetermined function.

13. (Currently Amended) The method of claim 9, further comprising:

generating an overall channel estimate by obtaining a weighted average
of a plurality of channel estimates generated by said generating a channel
estimate step over [[a]] the time window of predetermined width.